

INITIAL REVIEW EXPOSURE REPORT**Chemical ID: P-16-0400****Reviewer: Wong/Sarraino/EN****Results Table: Dose, Concentration, and Days Exceeded Results Summary**

Exposure Scenario ¹	Water						Landfill	Stack Air		Fugitive Air	
Release activity(ies) ² ; exposure calculation(s) ³	Drinking Water		Fish Ingestion		7Q10 ⁴ CC =1	PDM Days Exceeded	LADD	ADR (24-hr conc.)	LADD (Annual conc.)	ADR (24-hr conc.)	LADD (Annual conc.)
	ADR	LADD	ADR	LADD							
	mg/kg/day	mg/kg/day	mg/kg/day	mg/kg/day	µg/l	# Days	mg/kg/day	mg/kg/day (µg/m ³)	mg/kg/day (µg/m ³)	mg/kg/day (µg/m ³)	mg/kg/day (µg/m ³)
PROC: max acute eco	---	---	---	---	1.68E+04	---	---	---	---	---	---
PROC: Max LADD	---	---	---	---	---	---	---	---	---	---	2.26E-04 (2.92E+00)
PROC1: max acute eco	---	---	---	---	1.10E+02	---	---	---	---	---	---
PROC1: PDM1	---	---	---	---	1.10E+02	249	---	---	---	---	---
PROC2: max acute eco	---	---	---	---	1.11E+03	---	---	---	---	---	---
PROC2: PDM1	---	---	---	---	1.11E+03	64	---	---	---	---	---
PROC2: PDM2	---	---	---	---	6.19E+02	250	---	---	---	---	---
PROC3/USE3: max acute eco	---	---	---	---	2.34E+03	---	---	---	---	4.25E+00 (2.32E+04)	---
PROC3/USE3: PDM1	---	---	---	---	2.23E+03	107	---	---	---	---	---
PROC3/USE3: PDM2	---	---	---	---	1.52E+03	250	---	---	---	---	---
PROC3/USE3: Max LADD	---	---	---	---	---	---	---	---	---	---	3.99E-03 (5.15E+01)
PROC4: max acute eco	---	---	---	---	4.99E+02	---	---	---	---	---	---
PROC4: PDM1	---	---	---	---	9.66E+00	197	---	---	---	---	---
PROC/USE5: max acute eco	---	---	---	---	7.80E+02	---	---	---	---	---	---
PROC/USE5: PDM1	---	---	---	---	7.80E+02	112	---	---	---	---	---
PROC/USE5: PDM2	---	---	---	---	7.76E+01	219	---	---	---	---	---
USE1: max acute eco	---	---	---	---	1.31E+02	---	---	---	---	1.20E+00 (6.56E+03)	---
USE1: PDM1	---	---	---	---	1.31E+02	250	---	---	---	---	---
USE1: Max LADD	---	---	---	---	---	---	---	---	---	---	8.52E-03 (1.10E+02)
USE2: max acute eco	---	---	---	---	2.58E+00	---	---	---	---	---	---
USE2: PDM1	---	---	---	---	2.58E+00	102	---	---	---	---	---
USE4: max acute eco	---	---	---	---	1.43E+02	---	---	---	---	---	---
USE4: PDM1	---	---	---	---	5.99E+01	215	---	---	---	---	---

¹ Exposure scenario titles consist of release activity followed by exposure calculation abbreviation.

² Release activities are from engineering report's Manufacturing (Mfg), Processing (Proc) and Use release activity labels. Multiple release activities are combined in one exposure scenario if their releases occur at same location.

³ Exposure calculations are Acute Dose Rate (ADR), Lifetime Average Daily Dose (LADD), and Probabilistic Dilution Model (PDM). There may be one, two, or all three exposure calculations per exposure scenario.

CC is the aquatic concentration of concern.

⁴ This column displays concentration values for the 7Q10 streamflow, which is defined as the average daily streamflow of the seven consecutive days of lowest flow within a ten year period.

Remarks: **Consumer Exposure can occur through the use of cleaning products containing the PMN. Young children could be exposed through accidental ingestion of cleaning fluid as well as dermal and inhalation exposure from wet surfaces. Dermal and Inhalation exposure from wet surfaces could also affect pregnant women and the elderly.**

Results Table: Consumer Exposure Results Summary

Scenario	Water (DtD)						Dermal		Inhalation	
	Drinking Water		Fish Ingestion		7Q10	PDM Days Exceeded	ADR	LADD	ADR	LADD
	ADR	LADD	ADR	LADD						
	mg/kg/day	mg/kg/day	mg/kg/day	mg/kg/day	µg/l	# Days	mg/kg/day	mg/kg/day	mg/kg/day	mg/kg/day
DtD¹	---	---	---	---	1.54E+02	360	---	---	---	---
CEM², General Purpose	---	---	---	---	---	---	2.15E-02	1.29E-02	3.48E-01	1.11E-01
CEM², Latex Paint	---	---	---	---	---	---	3.93E+01	6.08E-02	1.31E+01	8.09E-03
CEM², Laundry detergent	---	---	---	---	---	---	6.83E-03	7.11E-04	3.00E-01	4.74E-02

¹ Down-the-Drain Module within NCEM2 model.

² Consumer Exposure Module within NCEM2 model.

Results Table: Exposure Based (XB)/Persistent (P2B2) Criteria

Parameter	Exp Based	Persistent	Exceedance Value
Drinking (Surface) Water Dose (mg/kg/day)	No	NA	
Fish Ingestion Dose (mg/kg/day)	No	NA	
Inhalation Dose (mg/kg/day)	Yes	NA	8 52E-03
Groundwater Dose (mg/kg/day)	No	NA	
Surface Water Release After Treatment (kg/yr)	Yes	NA	1 11E+06
Total Release After Treatment (kg/yr)	Yes	NA	3.05E+07
Consumer Use?	Yes		1 11E-01

Fate test recommendations?: (default is NA)

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: P-16-0400

Assessor: Wong/Sarraino/EN

ENVIRONMENTAL RELEASES

Scenario#:1

Number of Release Sites: 2.

Release Activity: PROC: Max ADR

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
Total Releases:	2600.00 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	0.00 (kg/yr)

Non-sludge/Sludge

Release Days/yr:	1.00	0.00/0.00	N/A	0.00
Per Site Release:	1300.00 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	0.00 (kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: P-16-0400

SIC-CODE BASED HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 1

Number of Sites: 2

RELEASE ACTIVITY: PROC:
Max ADR

SIC-CODE DESCRIPTION: POTW (Indust., includes POTWs which receive ind. disch.)

SIC-CODE (S): Subset of 4952

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
90.00	1.	1300.	130.00	0.00	121.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER									
PLANT TYPE	% ILE FACILITY	STREAM FLOW (MLD)				STREAM CONC. (µg/l)			
		Harmonic Mean	30Q5	7Q10	1Q10	Harmonic Mean	30Q5	7Q10	1Q10
ALL	50	288.00	123.84	78.18	66.05	451.39	1049.74	1662.83	1968.21
ALL	10	39.60	13.29	7.76	7.57	3282.83	9781.79	1.68E+04	1.72E+04

DRINKING WATER AND FISH INGESTION EXPOSURE ESTIMATES						
Exposure Units	Drinking Water Results		Drinking Water Units	Fish Ingestion Results		Fish Ingestion Units
	50%	10%		50%	10%	
Cancer						
LADD _{pot}	6.80E-06	4.95E-05	mg/kg/day	5.94E-06	4.32E-05	mg/kg/day
LADC _{pot}	5.23E-04	3.81E-03	mg/L	6.33E-02	0.46	mg/kg
Acute						
ADR _{pot}	3.98E-02	0.37	mg/kg/day	0.19	1.39	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: P-16-0400

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 1

RELEASE ACTIVITY: PROC: Max ADR

SIC CODE DESCRIPTION: POTW (Indust., includes POTWs which receive ind. disch.)

ASSOCIATED SIC CODES: Subset of 4952

SIC CODE RESULTS

COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Loading (kg/site/day)	Waste Water Treatment (%)	High/Avg Analysis
1.00	0	1	1.00	1300.00	90.00	High

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: P-16-0400

Assessor: Wong/Sarraino/EN

ENVIRONMENTAL RELEASES

Scenario#:2

Number of Release Sites: 2.

Release Activity: PROC: Max LADD

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
Total Releases:	0.00 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	195.00 (kg/yr)
Non-sludge/Sludge				
Release Days/yr:	0.00	0.00/0.00	N/A	1.00
Per Site Release:	0.00 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	97.50 (kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: P-16-0400

INHALATION EXPOSURE ESTIMATES (POST-TREATMENT)
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SCENARIO #: 2

RELEASE ACTIVITY:PROC: Max LADD

RELEASE DESCRIPTION:

METHOD OF CALCULATION: Screen3

EXPOSED POPULATION: Adult

Number of Sites:	2.
Per Site Fugitive Release:	97.50 kg/site/day
Fugitive Release Days per Year:	1.00 days
% Removal via Fugitive Release:	0.00 %
Total Fugitive Release:	195.00 kg/yr
Max Annual Average Air Concentration (Fugitive):	2.92 $\mu\text{g}/\text{m}^3$
Max 24 Hour Average Air Concentration(Fugitive):	N/A $\mu\text{g}/\text{m}^3$
Per Site Stack Release:	NA kg/site/day
Stack Release Days per Year:	NA days
% Removal via Stack Release:	99.90 %
Total Stack Release:	NA kg/yr
Max Annual Average Air Concentration (Stack):	0.00 $\mu\text{g}/\text{m}^3$
Max 24 Hour Average Air Concentration (Stack):	N/A $\mu\text{g}/\text{m}^3$

Exposure Units	Results (Stack)	Results (Fugitive)	ASSUMPTIONS			
			ED (years)	AT (years)	BW (kg)	Inh. Rate (m ³ /hr)
Cancer						
LADD _{pot} (mg/kg/day)	N/A	2.26E-04	33.00	78.00	80.00	0.61
LADC _{pot} (mg/m ³)	N/A	1.24E-03	33.00	78.00	NA	NA
Acute						
ADR _{pot} (mg/kg/day)	N/A	N/A	NA	1 day	80.00	0.61

Inhalation Comments:

Stack Parameter Data

Stack Height	10.00
Inside Stack Diameter:	0.10
Stack Gas Exit Velocity:	0.10
Stack Gas Temperature:	293.00

Fugitive Parameter Data

Release Height:	3.00	m
Length of Release Opening:	10.00	m
Width of Release Opening:	10.00	m

Meteorological and Terrain Information:

Surrounding Land Use:	Rural	
Terrain Height:	0.00	m
Distance to Residence of Interest:	100.00	m
Meteorological Class:	Full	
Stability Class:	NA	
Wind Speed:	NA	

Downwash Information:

Facility Length:	NA	m
Facility Width:	NA	m
Facility Height:	NA	m

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: P-16-0400

Assessor: Wong/Sarraino/EN

ENVIRONMENTAL RELEASES

Scenario#:3

Number of Release Sites: 300.

Release Activity: PROC1: Max ADR

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
Total Releases:	6.38E+05 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	0.00 (kg/yr)
Non-sludge/Sludge				
Release Days/yr:	250.00	0.00/0.00	N/A	0.00
Per Site Release:	8.50 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	0.00 (kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: P-16-0400

SIC-CODE BASED HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 3

Number of Sites: 300

RELEASE ACTIVITY: PROC1:
Max ADR

SIC-CODE DESCRIPTION: POTW (Indust., includes POTWs which receive ind. disch.)

SIC-CODE (S): Subset of 4952

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
90.00	250.	8.5	0.85	0.00	121.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER									
PLANT TYPE	% ILE FACILITY	STREAM FLOW (MLD)				STREAM CONC. (µg/l)			
		Harmonic Mean	30Q5	7Q10	1Q10	Harmonic Mean	30Q5	7Q10	1Q10
ALL	50	288.00	123.84	78.18	66.05	2.95	6.86	10.87	12.87
ALL	10	39.60	13.29	7.76	7.57	21.46	63.96	109.54	112.29

DRINKING WATER AND FISH INGESTION EXPOSURE ESTIMATES						
Exposure Units	Drinking Water Results		Drinking Water Units	Fish Ingestion Results		Fish Ingestion Units
	50%	10%		50%	10%	
Cancer						
LADD _{pot}	1.11E-05	8.09E-05	mg/kg/day	9.70E-06	7.06E-05	mg/kg/day
LADC _{pot}	8.55E-04	6.22E-03	mg/L	0.10	0.75	mg/kg
Acute						
ADR _{pot}	2.60E-04	2.42E-03	mg/kg/day	1.25E-03	9.06E-03	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: P-16-0400

Assessor: Wong/Sarraino/EN

ENVIRONMENTAL RELEASES

Scenario#:4

Number of Release Sites: 300.

Release Activity: PROC1: PDM1

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
Total Releases:	6.38E+05 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	0.00 (kg/yr)
Non-sludge/Sludge				
Release Days/yr:	250.00	0.00/0.00	N/A	0.00
Per Site Release:	8.50 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	0.00 (kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: P-16-0400

SIC-CODE BASED HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 4

Number of Sites: 300

RELEASE ACTIVITY: PROC1:
PDM1

SIC-CODE DESCRIPTION: POTW (Indust., includes POTWs which receive ind. disch.)

SIC-CODE (S): Subset of 4952

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
90.00	250.	8.5	0.85	0.00	121.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER									
PLANT TYPE	% ILE FACILITY	STREAM FLOW (MLD)				STREAM CONC. (µg/l)			
		Harmonic Mean	30Q5	7Q10	1Q10	Harmonic Mean	30Q5	7Q10	1Q10
ALL	50	288.00	123.84	78.18	66.05	2.95	6.86	10.87	12.87
ALL	10	39.60	13.29	7.76	7.57	21.46	63.96	109.54	112.29

DRINKING WATER AND FISH INGESTION EXPOSURE ESTIMATES						
Exposure Units	Drinking Water Results		Drinking Water Units	Fish Ingestion Results		Fish Ingestion Units
	50%	10%		50%	10%	
Cancer						
LADD _{pot}	1.11E-05	8.09E-05	mg/kg/day	9.70E-06	7.06E-05	mg/kg/day
LADC _{pot}	8.55E-04	6.22E-03	mg/L	0.10	0.75	mg/kg
Acute						
ADR _{pot}	2.60E-04	2.42E-03	mg/kg/day	1.25E-03	9.06E-03	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: P-16-0400

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 4

RELEASE ACTIVITY: PROC1: PDM1

SIC CODE DESCRIPTION: POTW (Indust., includes POTWs which receive ind. disch.)

ASSOCIATED SIC CODES: Subset of 4952

SIC CODE RESULTS

COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Loading (kg/site/day)	Waste Water Treatment (%)	High/Avg Analysis
■	■	■	■	■	90.00	High

Note: Number of COC exceedance days ■.

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: P-16-0400

Assessor: Wong/Sarraino/EN

ENVIRONMENTAL RELEASES

Scenario#:5

Number of Release Sites: 5.

Release Activity: PROC2: Max ADR

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:

	(kg/yr)	(kg/yr)	(kg/yr)	(kg/yr)

Non-sludge/Sludge

Release Days/yr:

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Per Site Release:

	(kg/site/day)	(kg/site/day)	(kg/site/day)	(kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: P-16-0400

SIC-CODE BASED HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 5

Number of Sites: 5

RELEASE ACTIVITY: PROC2:
Max ADR

SIC-CODE DESCRIPTION: POTW (Indust., includes POTWs which receive ind. disch.)

SIC-CODE (S): Subset of 4952

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
90.00	64.	86.	8.60	0.00	121.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER									
PLANT TYPE	% ILE FACILITY	STREAM FLOW (MLD)				STREAM CONC. (µg/l)			
		Harmonic Mean	30Q5	7Q10	1Q10	Harmonic Mean	30Q5	7Q10	1Q10
ALL	50	288.00	123.84	78.18	66.05	29.86	69.44	110.00	130.20
ALL	10	39.60	13.29	7.76	7.57	217.17	647.10	1108.25	1136.06

DRINKING WATER AND FISH INGESTION EXPOSURE ESTIMATES						
Exposure Units	Drinking Water Results		Drinking Water Units	Fish Ingestion Results		Fish Ingestion Units
	50%	10%		50%	10%	
Cancer						
LADD _{pot}	2.88E-05	2.09E-04	mg/kg/day	2.51E-05	1.83E-04	mg/kg/day
LADC _{pot}	2.22E-03	1.61E-02	mg/L	0.27	1.95	mg/kg
Acute						
ADR _{pot}	2.63E-03	2.45E-02	mg/kg/day	1.26E-02	9.16E-02	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: P-16-0400

Assessor: Wong/Sarraino/EN

ENVIRONMENTAL RELEASES

Scenario#:6

Number of Release Sites: 5.

Release Activity: PROC2: PDM1

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:

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(kg/yr)

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(kg/yr)

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(kg/yr)

--

(kg/yr)

Non-sludge/Sludge

Release Days/yr:

--

--

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Per Site Release:

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(kg/site/day)

--

(kg/site/day)

--

(kg/site/day)

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(kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: P-16-0400

SIC-CODE BASED HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 6

Number of Sites: 5

RELEASE ACTIVITY: PROC2:
PDM1

SIC-CODE DESCRIPTION: POTW (Indust., includes POTWs which receive ind. disch.)

SIC-CODE (S): Subset of 4952

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
90.00	64.	86.	8.60	0.00	121.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER									
PLANT TYPE	% ILE FACILITY	STREAM FLOW (MLD)				STREAM CONC. (µg/l)			
		Harmonic Mean	30Q5	7Q10	1Q10	Harmonic Mean	30Q5	7Q10	1Q10
ALL	50	288.00	123.84	78.18	66.05	29.86	69.44	110.00	130.20
ALL	10	39.60	13.29	7.76	7.57	217.17	647.10	1108.25	1136.06

DRINKING WATER AND FISH INGESTION EXPOSURE ESTIMATES						
Exposure Units	Drinking Water Results		Drinking Water Units	Fish Ingestion Results		Fish Ingestion Units
	50%	10%		50%	10%	
Cancer						
LADD _{pot}	2.88E-05	2.09E-04	mg/kg/day	2.51E-05	1.83E-04	mg/kg/day
LADC _{pot}	2.22E-03	1.61E-02	mg/L	0.27	1.95	mg/kg
Acute						
ADR _{pot}	2.63E-03	2.45E-02	mg/kg/day	1.26E-02	9.16E-02	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: P-16-0400

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 6

RELEASE ACTIVITY: PROC2: PDM1

SIC CODE DESCRIPTION: POTW (Indust., includes POTWs which receive ind. disch.)

ASSOCIATED SIC CODES: Subset of 4952

SIC CODE RESULTS

COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Loading (kg/site/day)	Waste Water Treatment (%)	High/Avg Analysis
1.00	18	64	64.00	86.00	90.00	High

Note: Number of COC exceedance days > 20.

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: P-16-0400

Assessor: Wong/Sarraino/EN

ENVIRONMENTAL RELEASES

Scenario#:7

Number of Release Sites: 5.

Release Activity: PROC2: PDM2

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	6.00E+04	N/A	N/A	0.00
	(kg/yr)	(kg/yr)	(kg/yr)	(kg/yr)

Non-sludge/Sludge

Release Days/yr:	250.00	0.00/0.00	N/A	0.00
Per Site Release:	48.00	N/A/0.00	N/A	0.00
	(kg/site/day)	(kg/site/day)	(kg/site/day)	(kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: P-16-0400

SIC-CODE BASED HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 7

Number of Sites: 5

RELEASE ACTIVITY: PROC2:
PDM2

SIC-CODE DESCRIPTION: POTW (Indust., includes POTWs which receive ind. disch.)

SIC-CODE (S): Subset of 4952

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
90.00	250.	48.	4.80	0.00	121.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER									
PLANT TYPE	% ILE FACILITY	STREAM FLOW (MLD)				STREAM CONC. (µg/l)			
		Harmonic Mean	30Q5	7Q10	1Q10	Harmonic Mean	30Q5	7Q10	1Q10
ALL	50	288.00	123.84	78.18	66.05	16.67	38.76	61.40	72.67
ALL	10	39.60	13.29	7.76	7.57	121.21	361.17	618.56	634.08

DRINKING WATER AND FISH INGESTION EXPOSURE ESTIMATES						
Exposure Units	Drinking Water Results		Drinking Water Units	Fish Ingestion Results		Fish Ingestion Units
	50%	10%		50%	10%	
Cancer						
LADD _{pot}	6.28E-05	4.57E-04	mg/kg/day	5.48E-05	3.98E-04	mg/kg/day
LADC _{pot}	4.83E-03	3.51E-02	mg/L	0.58	4.25	mg/kg
Acute						
ADR _{pot}	1.47E-03	1.37E-02	mg/kg/day	7.03E-03	5.11E-02	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: P-16-0400

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 7

RELEASE ACTIVITY: PROC2: PDM2

SIC CODE DESCRIPTION: POTW (Indust., includes POTWs which receive ind. disch.)

ASSOCIATED SIC CODES: Subset of 4952

SIC CODE RESULTS

COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Loading (kg/site/day)	Waste Water Treatment (%)	High/Avg Analysis
1.00	68	250	250.00	48.00	90.00	High

Note: Number of COC exceedance days > 20.

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: P-16-0400

Assessor: Wong/Sarraino/EN

ENVIRONMENTAL RELEASES

Scenario#:8

Number of Release Sites: 1.

Release Activity: PROC3/USE3: Max ADR

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
Total Releases:	1246.00 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	1700.80 (kg/yr)
Release Days/yr:	10.00	0.00/0.00	N/A	10.00
Per Site Release:	124.60 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	170.08 (kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: P-16-0400

SIC-CODE BASED HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 8

Number of Sites: 1

RELEASE

ACTIVITY:PROC3/USE3: Max

ADR

SIC-CODE DESCRIPTION: Pesticides Manufacture

SIC-CODE (S): 2819,2869,2879

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
90.00	10.	124.6	12.46	0.00	121.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER									
PLANT TYPE	% ILE FACILITY	STREAM FLOW (MLD)				STREAM CONC. (µg/l)			
		Harmonic Mean	30Q5	7Q10	1Q10	Harmonic Mean	30Q5	7Q10	1Q10
ALL	50	1054.81	342.90	224.38	183.26	11.81	36.34	55.53	67.99
ALL	10	37.33	9.25	5.33	4.47	333.78	1347.03	2337.71	2787.47

DRINKING WATER AND FISH INGESTION EXPOSURE ESTIMATES						
Exposure Units	Drinking Water Results		Drinking Water Units	Fish Ingestion Results		Fish Ingestion Units
	50%	10%		50%	10%	
Cancer						
LADD _{pot}	1.78E-06	5.03E-05	mg/kg/day	1.55E-06	4.39E-05	mg/kg/day
LADC _{pot}	1.37E-04	3.87E-03	mg/L	1.66E-02	0.47	mg/kg
Acute						
ADR _{pot}	1.38E-03	5.10E-02	mg/kg/day	4.98E-03	0.14	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: P-16-0400

INHALATION EXPOSURE ESTIMATES (POST-TREATMENT)
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SCENARIO #: 8

RELEASE ACTIVITY:PROC3/USE3: Max ADR

RELEASE DESCRIPTION:

METHOD OF CALCULATION: Screen3

EXPOSED POPULATION: Adult

Number of Sites:	1.
Per Site Fugitive Release:	170.08 kg/site/day
Fugitive Release Days per Year:	10.00 days
% Removal via Fugitive Release:	0.00 %
Total Fugitive Release:	1700.80 kg/yr
Max Annual Average Air Concentration (Fugitive):	50.90 $\mu\text{g}/\text{m}^3$
Max 24 Hour Average Air Concentration(Fugitive):	2.32E+04 $\mu\text{g}/\text{m}^3$
Per Site Stack Release:	NA kg/site/day
Stack Release Days per Year:	NA days
% Removal via Stack Release:	99.90 %
Total Stack Release:	NA kg/yr
Max Annual Average Air Concentration (Stack):	0.00 $\mu\text{g}/\text{m}^3$
Max 24 Hour Average Air Concentration (Stack):	0.00 $\mu\text{g}/\text{m}^3$

Exposure Units	Results (Stack)	Results (Fugitive)	ASSUMPTIONS			
			ED (years)	AT (years)	BW (kg)	Inh. Rate (m ³ /hr)
Cancer						
LADD _{pot} (mg/kg/day)	N/A	3.94E-03	33.00	78.00	80.00	0.61
LADC _{pot} (mg/m ³)	N/A	2.15E-02	33.00	78.00	NA	NA
Acute						
ADR _{pot} (mg/kg/day)	N/A	4.25	NA	1 day	80.00	0.61

Inhalation Comments:

Stack Parameter Data

Stack Height	10.00
Inside Stack Diameter:	0.10
Stack Gas Exit Velocity:	0.10
Stack Gas Temperature:	293.00

Fugitive Parameter Data

Release Height:	3.00	m
Length of Release Opening:	10.00	m
Width of Release Opening:	10.00	m

Meteorological and Terrain Information:

Surrounding Land Use:	Rural	
Terrain Height:	0.00	m
Distance to Residence of Interest:	100.00	m
Meteorological Class:	Full	
Stability Class:	NA	
Wind Speed:	NA	

Downwash Information:

Facility Length:	NA	m
Facility Width:	NA	m
Facility Height:	NA	m

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: P-16-0400

Assessor: Wong/Sarraino/EN

ENVIRONMENTAL RELEASES

Scenario#:9

Number of Release Sites: 1.

Release Activity: PROC3/USE3: PDM1

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
Total Releases:	1.27E+04 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	0.00 (kg/yr)

	Non-sludge/Sludge			
Release Days/yr:	107.00	0.00/0.00	N/A	0.00
Per Site Release:	119.00 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	0.00 (kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: P-16-0400

SIC-CODE BASED HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 9

Number of Sites: 1

RELEASE

ACTIVITY:PROC3/USE3: PDM1

SIC-CODE DESCRIPTION: Pesticides Manufacture

SIC-CODE (S): 2819,2869,2879

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
90.00	107.	119.	11.90	0.00	121.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER

PLANT TYPE	% ILE FACILITY	STREAM FLOW (MLD)				STREAM CONC. (µg/l)			
		Harmonic Mean	30Q5	7Q10	1Q10	Harmonic Mean	30Q5	7Q10	1Q10
ALL	50	1054.81	342.90	224.38	183.26	11.28	34.70	53.04	64.94
ALL	10	37.33	9.25	5.33	4.47	318.78	1286.49	2232.65	2662.19

DRINKING WATER AND FISH INGESTION EXPOSURE ESTIMATES

Exposure Units	Drinking Water Results		Drinking Water Units	Fish Ingestion Results		Fish Ingestion Units
	50%	10%		50%	10%	
Cancer						
LADD _{pot}	1.82E-05	5.14E-04	mg/kg/day	1.59E-05	4.48E-04	mg/kg/day
LADC _{pot}	1.40E-03	3.95E-02	mg/L	0.17	4.78	mg/kg
Acute						
ADR _{pot}	1.31E-03	4.87E-02	mg/kg/day	4.76E-03	0.13	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: P-16-0400

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 9

RELEASE ACTIVITY: PROC3/USE3: PDM1

SIC CODE DESCRIPTION: Pesticides Manufacture

ASSOCIATED SIC CODES: 2819,2869,2879

SIC CODE RESULTS

COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Loading (kg/site/day)	Waste Water Treatment (%)	High/Avg Analysis
1.00	29	107	107.00	119.00	90.00	High

Note: Number of COC exceedance days > 20.

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: P-16-0400

Assessor: Wong/Sarraino/EN

ENVIRONMENTAL RELEASES

Scenario#:10

Number of Release Sites: 1.

Release Activity: PROC3/USE3: PDM2

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	2.03E+04	N/A	N/A	0.00
	(kg/yr)	(kg/yr)	(kg/yr)	(kg/yr)

Non-sludge/Sludge

Release Days/yr:	250.00	0.00/0.00	N/A	0.00
Per Site Release:	81.00	N/A/0.00	N/A	0.00
	(kg/site/day)	(kg/site/day)	(kg/site/day)	(kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: P-16-0400

SIC-CODE BASED HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 10

Number of Sites: 1

RELEASE

ACTIVITY:PROC3/USE3: PDM2

SIC-CODE DESCRIPTION: Pesticides Manufacture

SIC-CODE (S): 2819,2869,2879

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
90.00	250.	81.	8.10	0.00	121.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER									
PLANT TYPE	% ILE FACILITY	STREAM FLOW (MLD)				STREAM CONC. (µg/l)			
		Harmonic Mean	30Q5	7Q10	1Q10	Harmonic Mean	30Q5	7Q10	1Q10
ALL	50	1054.81	342.90	224.38	183.26	7.68	23.62	36.10	44.20
ALL	10	37.33	9.25	5.33	4.47	216.98	875.68	1519.70	1812.08

DRINKING WATER AND FISH INGESTION EXPOSURE ESTIMATES						
Exposure Units	Drinking Water Results		Drinking Water Units	Fish Ingestion Results		Fish Ingestion Units
	50%	10%		50%	10%	
Cancer						
LADD _{pot}	2.89E-05	8.17E-04	mg/kg/day	2.52E-05	7.13E-04	mg/kg/day
LADC _{pot}	2.23E-03	6.29E-02	mg/L	0.27	7.61	mg/kg
Acute						
ADR _{pot}	8.95E-04	3.32E-02	mg/kg/day	3.24E-03	9.16E-02	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: P-16-0400

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 10

RELEASE ACTIVITY: PROC3/USE3: PDM2

SIC CODE DESCRIPTION: Pesticides Manufacture

ASSOCIATED SIC CODES: 2819,2869,2879

SIC CODE RESULTS

COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Loading (kg/site/day)	Waste Water Treatment (%)	High/Avg Analysis
1.00	68	250	250.00	81.00	90.00	High

Note: Number of COC exceedance days > 20.

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: P-16-0400

Assessor: Wong/Sarraino/EN

ENVIRONMENTAL RELEASES

Scenario#:11

Number of Release Sites: 1.

Release Activity: PROC3/USE3: Max LADD

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
Total Releases:	0.00 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	1719.77 (kg/yr)
Non-sludge/Sludge				
Release Days/yr:	0.00	0.00/0.00	N/A	1.00
Per Site Release:	0.00 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	1719.77 (kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: P-16-0400

INHALATION EXPOSURE ESTIMATES (POST-TREATMENT)
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SCENARIO #: 11

RELEASE ACTIVITY:PROC3/USE3: Max LADD

RELEASE DESCRIPTION:

METHOD OF CALCULATION: Screen3

EXPOSED POPULATION: Adult

Number of Sites:	1.
Per Site Fugitive Release:	1719.77 kg/site/day
Fugitive Release Days per Year:	1.00 days
% Removal via Fugitive Release:	0.00 %
Total Fugitive Release:	1719.77 kg/yr
Max Annual Average Air Concentration (Fugitive):	51.50 $\mu\text{g}/\text{m}^3$
Max 24 Hour Average Air Concentration(Fugitive):	N/A $\mu\text{g}/\text{m}^3$
Per Site Stack Release:	NA kg/site/day
Stack Release Days per Year:	NA days
% Removal via Stack Release:	99.90 %
Total Stack Release:	NA kg/yr
Max Annual Average Air Concentration (Stack):	0.00 $\mu\text{g}/\text{m}^3$
Max 24 Hour Average Air Concentration (Stack):	N/A $\mu\text{g}/\text{m}^3$

Exposure Units	Results (Stack)	Results (Fugitive)	ASSUMPTIONS			
			ED (years)	AT (years)	BW (kg)	Inh. Rate (m ³ /hr)
Cancer						
LADD _{pot} (mg/kg/day)	N/A	3.99E-03	33.00	78.00	80.00	0.61
LADC _{pot} (mg/m ³)	N/A	2.18E-02	33.00	78.00	NA	NA
Acute						
ADR _{pot} (mg/kg/day)	N/A	N/A	NA	1 day	80.00	0.61

Inhalation Comments:

Stack Parameter Data

Stack Height	10.00
Inside Stack Diameter:	0.10
Stack Gas Exit Velocity:	0.10
Stack Gas Temperature:	293.00

Fugitive Parameter Data

Release Height:	3.00	m
Length of Release Opening:	10.00	m
Width of Release Opening:	10.00	m

Meteorological and Terrain Information:

Surrounding Land Use:	Rural	
Terrain Height:	0.00	m
Distance to Residence of Interest:	100.00	m
Meteorological Class:	Full	
Stability Class:	NA	
Wind Speed:	NA	

Downwash Information:

Facility Length:	NA	m
Facility Width:	NA	m
Facility Height:	NA	m

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: P-16-0400

Assessor: Wong/Sarraino/EN

ENVIRONMENTAL RELEASES

Scenario#:12

Number of Release Sites: 300.

Release Activity: PROC4: Max ADR

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
Total Releases:	1.16E+04 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	0.00 (kg/yr)

Non-sludge/Sludge

Release Days/yr:	1.00	0.00/0.00	N/A	0.00
Per Site Release:	38.75 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	0.00 (kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: P-16-0400

SIC-CODE BASED HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 12

Number of Sites: 300

RELEASE ACTIVITY: PROC4:
Max ADR

SIC-CODE DESCRIPTION: POTW (Indust., includes POTWs which receive ind. disch.)

SIC-CODE (S): Subset of 4952

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
90.00	1.	38.75	3.87	0.00	121.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER									
PLANT TYPE	% ILE FACILITY	STREAM FLOW (MLD)				STREAM CONC. (µg/l)			
		Harmonic Mean	30Q5	7Q10	1Q10	Harmonic Mean	30Q5	7Q10	1Q10
ALL	50	288.00	123.84	78.18	66.05	13.45	31.29	49.57	58.67
ALL	10	39.60	13.29	7.76	7.57	97.85	291.57	499.36	511.89

DRINKING WATER AND FISH INGESTION EXPOSURE ESTIMATES						
Exposure Units	Drinking Water Results		Drinking Water Units	Fish Ingestion Results		Fish Ingestion Units
	50%	10%		50%	10%	
Cancer						
LADD _{pot}	2.03E-07	1.47E-06	mg/kg/day	1.77E-07	1.29E-06	mg/kg/day
LADC _{pot}	1.56E-05	1.13E-04	mg/L	1.89E-03	1.37E-02	mg/kg
Acute						
ADR _{pot}	1.19E-03	1.10E-02	mg/kg/day	5.68E-03	4.13E-02	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: P-16-0400

Assessor: Wong/Sarraino/EN

ENVIRONMENTAL RELEASES

Scenario#:13

Number of Release Sites: 300.

Release Activity: PROC4: PDM1

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
Total Releases:	5.63E+04 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	0.00 (kg/yr)
Non-sludge/Sludge				
Release Days/yr:	250.00	0.00/0.00	N/A	0.00
Per Site Release:	0.75 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	0.00 (kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: P-16-0400

SIC-CODE BASED HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 13

Number of Sites: 300

RELEASE ACTIVITY: PROC4:
PDM1

SIC-CODE DESCRIPTION: POTW (Indust., includes POTWs which receive ind. disch.)

SIC-CODE (S): Subset of 4952

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
90.00	250.	0.75	7.50E-02	0.00	121.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER									
PLANT TYPE	% ILE FACILITY	STREAM FLOW (MLD)				STREAM CONC. (µg/l)			
		Harmonic Mean	30Q5	7Q10	1Q10	Harmonic Mean	30Q5	7Q10	1Q10
ALL	50	288.00	123.84	78.18	66.05	0.26	0.61	0.96	1.14
ALL	10	39.60	13.29	7.76	7.57	1.89	5.64	9.66	9.91

DRINKING WATER AND FISH INGESTION EXPOSURE ESTIMATES						
Exposure Units	Drinking Water Results		Drinking Water Units	Fish Ingestion Results		Fish Ingestion Units
	50%	10%		50%	10%	
Cancer						
LADD _{pot}	9.81E-07	7.13E-06	mg/kg/day	8.56E-07	6.23E-06	mg/kg/day
LADC _{pot}	7.55E-05	5.49E-04	mg/L	9.13E-03	6.64E-02	mg/kg
Acute						
ADR _{pot}	2.29E-05	2.14E-04	mg/kg/day	1.10E-04	7.99E-04	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: P-16-0400

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 13

RELEASE ACTIVITY: PROC4: PDM1

SIC CODE DESCRIPTION: POTW (Indust., includes POTWs which receive ind. disch.)

ASSOCIATED SIC CODES: Subset of 4952

SIC CODE RESULTS

COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Loading (kg/site/day)	Waste Water Treatment (%)	High/Avg Analysis
1.00	54	197	250.00	0.75	90.00	High

Note: Number of COC exceedance days > 20.

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: P-16-0400

Assessor: Wong/Sarraino/EN

ENVIRONMENTAL RELEASES

Scenario#:14

Number of Release Sites: 16.

Release Activity: PROC/USE5: Max ADR

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
Total Releases:	7.56E+04 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	0.00 (kg/yr)
Non-sludge/Sludge				
Release Days/yr:	112.00	0.00/0.00	N/A	0.00
Per Site Release:	42.20 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	0.00 (kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: P-16-0400

SIC-CODE BASED HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 14

Number of Sites: 16

RELEASE

ACTIVITY:PROC/USE5: Max

ADR

SIC-CODE DESCRIPTION: Organic Chemicals Manufacture

SIC-CODE (S): 2865,2869

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
90.00	112.	42.2	4.22	0.00	121.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER									
PLANT TYPE	% ILE FACILITY	STREAM FLOW (MLD)				STREAM CONC. (µg/l)			
		Harmonic Mean	30Q5	7Q10	1Q10	Harmonic Mean	30Q5	7Q10	1Q10
ALL	50	2825.61	935.49	634.16	514.20	1.49	4.51	6.65	8.21
ALL	10	50.57	9.38	5.41	4.53	83.45	449.89	780.04	931.57

DRINKING WATER AND FISH INGESTION EXPOSURE ESTIMATES						
Exposure Units	Drinking Water Results		Drinking Water Units	Fish Ingestion Results		Fish Ingestion Units
	50%	10%		50%	10%	
Cancer						
LADD _{pot}	2.52E-06	1.41E-04	mg/kg/day	2.20E-06	1.23E-04	mg/kg/day
LADC _{pot}	1.94E-04	1.08E-02	mg/L	2.35E-02	1.31	mg/kg
Acute						
ADR _{pot}	1.71E-04	1.70E-02	mg/kg/day	6.30E-04	3.52E-02	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: P-16-0400

Assessor: Wong/Sarraino/EN

ENVIRONMENTAL RELEASES

Scenario#:15

Number of Release Sites: 16.

Release Activity: PROC/USE5: PDM1

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
Total Releases:	7.56E+04 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	0.00 (kg/yr)

Non-sludge/Sludge

Release Days/yr:	112.00	0.00/0.00	N/A	0.00
Per Site Release:	42.20 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	0.00 (kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: P-16-0400

SIC-CODE BASED HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 15

Number of Sites: 16

RELEASE

ACTIVITY:PROC/USE5: PDM1

SIC-CODE DESCRIPTION: Organic Chemicals Manufacture

SIC-CODE (S): 2865,2869

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
90.00	112.	42.2	4.22	0.00	121.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER									
PLANT TYPE	% ILE FACILITY	STREAM FLOW (MLD)				STREAM CONC. (µg/l)			
		Harmonic Mean	30Q5	7Q10	1Q10	Harmonic Mean	30Q5	7Q10	1Q10
ALL	50	2825.61	935.49	634.16	514.20	1.49	4.51	6.65	8.21
ALL	10	50.57	9.38	5.41	4.53	83.45	449.89	780.04	931.57

DRINKING WATER AND FISH INGESTION EXPOSURE ESTIMATES						
Exposure Units	Drinking Water Results		Drinking Water Units	Fish Ingestion Results		Fish Ingestion Units
	50%	10%		50%	10%	
Cancer						
LADD _{pot}	2.52E-06	1.41E-04	mg/kg/day	2.20E-06	1.23E-04	mg/kg/day
LADC _{pot}	1.94E-04	1.08E-02	mg/L	2.35E-02	1.31	mg/kg
Acute						
ADR _{pot}	1.71E-04	1.70E-02	mg/kg/day	6.30E-04	3.52E-02	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: P-16-0400

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 15

RELEASE ACTIVITY: PROC/USE5: PDM1

SIC CODE DESCRIPTION: Organic Chemicals Manufacture

ASSOCIATED SIC CODES: 2865,2869

SIC CODE RESULTS

COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Loading (kg/site/day)	Waste Water Treatment (%)	High/Avg Analysis
1.00	31	112	112.00	42.20	90.00	High

Note: Number of COC exceedance days > 20.

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: P-16-0400

Assessor: Wong/Sarraino/EN

ENVIRONMENTAL RELEASES

Scenario#:16

Number of Release Sites: 16.

Release Activity: PROC/USE5: PDM2

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
Total Releases:	1.68E+04 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	0.00 (kg/yr)
Non-sludge/Sludge				
Release Days/yr:	250.00	0.00/0.00	N/A	0.00
Per Site Release:	4.20 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	0.00 (kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: P-16-0400

SIC-CODE BASED HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 16

Number of Sites: 16

RELEASE

ACTIVITY:PROC/USE5: PDM2

SIC-CODE DESCRIPTION: Organic Chemicals Manufacture

SIC-CODE (S): 2865,2869

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
90.00	250.	4.2	0.42	0.00	121.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER									
PLANT TYPE	% ILE FACILITY	STREAM FLOW (MLD)				STREAM CONC. (µg/l)			
		Harmonic Mean	30Q5	7Q10	1Q10	Harmonic Mean	30Q5	7Q10	1Q10
ALL	50	2825.61	935.49	634.16	514.20	0.15	0.45	0.66	0.82
ALL	10	50.57	9.38	5.41	4.53	8.31	44.78	77.63	92.72

DRINKING WATER AND FISH INGESTION EXPOSURE ESTIMATES						
Exposure Units	Drinking Water Results		Drinking Water Units	Fish Ingestion Results		Fish Ingestion Units
	50%	10%		50%	10%	
Cancer						
LADD _{pot}	5.60E-07	3.13E-05	mg/kg/day	4.89E-07	2.73E-05	mg/kg/day
LADC _{pot}	4.31E-05	2.41E-03	mg/L	5.21E-03	0.29	mg/kg
Acute						
ADR _{pot}	1.70E-05	1.70E-03	mg/kg/day	6.27E-05	3.50E-03	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: P-16-0400

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 16

RELEASE ACTIVITY: PROC/USE5: PDM2

SIC CODE DESCRIPTION: Organic Chemicals Manufacture

ASSOCIATED SIC CODES: 2865,2869

SIC CODE RESULTS

COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Loading (kg/site/day)	Waste Water Treatment (%)	High/Avg Analysis
1.00	60	219	250.00	4.20	90.00	High

Note: Number of COC exceedance days > 20.

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: P-16-0400

Assessor: Wong/Sarraino/EN

ENVIRONMENTAL RELEASES

Scenario#:17

Number of Release Sites: 300.

Release Activity: USE1: Max ADR

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	7.65E+05	N/A	N/A	2.60E+07
	(kg/yr)	(kg/yr)	(kg/yr)	(kg/yr)

Non-sludge/Sludge

Release Days/yr:	250.00	0.00/0.00	N/A	250.00
Per Site Release:	10.20	N/A/0.00	N/A	346.15
	(kg/site/day)	(kg/site/day)	(kg/site/day)	(kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: P-16-0400

SIC-CODE BASED HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 17

Number of Sites: 300

RELEASE ACTIVITY:USE1:
Max ADR

SIC-CODE DESCRIPTION: POTW (Indust., includes POTWs which receive ind. disch.)

SIC-CODE (S): Subset of 4952

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
90.00	250.	10.2	1.02	0.00	121.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER									
PLANT TYPE	% ILE FACILITY	STREAM FLOW (MLD)				STREAM CONC. (µg/l)			
		Harmonic Mean	30Q5	7Q10	1Q10	Harmonic Mean	30Q5	7Q10	1Q10
ALL	50	288.00	123.84	78.18	66.05	3.54	8.24	13.05	15.44
ALL	10	39.60	13.29	7.76	7.57	25.76	76.75	131.44	134.74

DRINKING WATER AND FISH INGESTION EXPOSURE ESTIMATES						
Exposure Units	Drinking Water Results		Drinking Water Units	Fish Ingestion Results		Fish Ingestion Units
	50%	10%		50%	10%	
Cancer						
LADD _{pot}	1.33E-05	9.70E-05	mg/kg/day	1.16E-05	8.47E-05	mg/kg/day
LADC _{pot}	1.03E-03	7.46E-03	mg/L	0.12	0.90	mg/kg
Acute						
ADR _{pot}	3.12E-04	2.91E-03	mg/kg/day	1.49E-03	1.09E-02	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: P-16-0400

INHALATION EXPOSURE ESTIMATES (POST-TREATMENT)
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SCENARIO #: 17

RELEASE ACTIVITY:USE1: Max ADR

RELEASE DESCRIPTION:

METHOD OF CALCULATION: Screen3

EXPOSED POPULATION: Adult

Number of Sites:	300.
Per Site Fugitive Release:	346.15 kg/site/day
Fugitive Release Days per Year:	250.00 days
% Removal via Fugitive Release:	0.00 %
Total Fugitive Release:	2.60E+07 kg/yr
Max Annual Average Air Concentration (Fugitive):	110.00 µg/m ³
Max 24 Hour Average Air Concentration(Fugitive):	6560.00 µg/m ³
Per Site Stack Release:	NA kg/site/day
Stack Release Days per Year:	NA days
% Removal via Stack Release:	99.90 %
Total Stack Release:	NA kg/yr
Max Annual Average Air Concentration (Stack):	0.00 µg/m ³
Max 24 Hour Average Air Concentration (Stack):	0.00 µg/m ³

Exposure Units	Results (Stack)	Results (Fugitive)	ASSUMPTIONS			
			ED (years)	AT (years)	BW (kg)	Inh. Rate (m ³ /hr)
Cancer						
LADD _{pot} (mg/kg/day)	N/A	8.52E-03	33.00	78.00	80.00	0.61
LADC _{pot} (mg/m ³)	N/A	4.65E-02	33.00	78.00	NA	NA
Acute						
ADR _{pot} (mg/kg/day)	N/A	1.20	NA	1 day	80.00	0.61

Inhalation Comments:

Stack Parameter Data

Stack Height	10.00	m
Inside Stack Diameter:	0.10	m
Stack Gas Exit Velocity:	0.10	m/sec
Stack Gas Temperature:	293.00	K

Fugitive Parameter Data

Release Height:	3.00	m
Length of Release Opening:	10.00	m
Width of Release Opening:	10.00	m

Meteorological and Terrain Information:

Surrounding Land Use:	Rural
Terrain Height:	0.00
Distance to Residence of Interest:	0.00
Meteorological Class:	Full
Stability Class:	NA
Wind Speed:	NA ft/sec

Downwash Information:

Facility Length:	NA	m
Facility Width:	NA	m
Facility Height:	NA	m

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: P-16-0400

Assessor: Wong/Sarraino/EN

ENVIRONMENTAL RELEASES

Scenario#:18

Number of Release Sites: 300.

Release Activity: USE1: PDM1

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
Total Releases:	7.65E+05 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	0.00 (kg/yr)
Non-sludge/Sludge				
Release Days/yr:	250.00	0.00/0.00	N/A	0.00
Per Site Release:	10.20 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	0.00 (kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: P-16-0400

SIC-CODE BASED HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 18

Number of Sites: 300

RELEASE ACTIVITY:USE1:
PDM1

SIC-CODE DESCRIPTION: POTW (Indust., includes POTWs which receive ind. disch.)

SIC-CODE (S): Subset of 4952

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
90.00	250.	10.2	1.02	0.00	121.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER									
PLANT TYPE	% ILE FACILITY	STREAM FLOW (MLD)				STREAM CONC. (µg/l)			
		Harmonic Mean	30Q5	7Q10	1Q10	Harmonic Mean	30Q5	7Q10	1Q10
ALL	50	288.00	123.84	78.18	66.05	3.54	8.24	13.05	15.44
ALL	10	39.60	13.29	7.76	7.57	25.76	76.75	131.44	134.74

DRINKING WATER AND FISH INGESTION EXPOSURE ESTIMATES						
Exposure Units	Drinking Water Results		Drinking Water Units	Fish Ingestion Results		Fish Ingestion Units
	50%	10%		50%	10%	
Cancer						
LADD _{pot}	1.33E-05	9.70E-05	mg/kg/day	1.16E-05	8.47E-05	mg/kg/day
LADC _{pot}	1.03E-03	7.46E-03	mg/L	0.12	0.90	mg/kg
Acute						
ADR _{pot}	3.12E-04	2.91E-03	mg/kg/day	1.49E-03	1.09E-02	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: P-16-0400

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 18

RELEASE ACTIVITY: USE1: PDM1

SIC CODE DESCRIPTION: POTW (Indust., includes POTWs which receive ind. disch.)

ASSOCIATED SIC CODES: Subset of 4952

SIC CODE RESULTS

COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Loading (kg/site/day)	Waste Water Treatment (%)	High/Avg Analysis
1.00	68	250	250.00	10.20	90.00	High

Note: Number of COC exceedance days > 20.

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: P-16-0400

Assessor: Wong/Sarraino/EN

ENVIRONMENTAL RELEASES

Scenario#:19

Number of Release Sites: 300.

Release Activity: USE1: Max LADD

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
Total Releases:	0.00 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	2.60E+07 (kg/yr)

Non-sludge/Sludge

Release Days/yr:	0.00	0.00/0.00	N/A	1.00
Per Site Release:	0.00 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	8.65E+04 (kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: P-16-0400

INHALATION EXPOSURE ESTIMATES (POST-TREATMENT)
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SCENARIO #: 19

RELEASE ACTIVITY: USE1: Max LADD

RELEASE DESCRIPTION:

METHOD OF CALCULATION: Screen3

EXPOSED POPULATION: Adult

Number of Sites:	300.
Per Site Fugitive Release:	8.65E+04 kg/site/day
Fugitive Release Days per Year:	1.00 days
% Removal via Fugitive Release:	0.00 %
Total Fugitive Release:	2.60E+07 kg/yr
Max Annual Average Air Concentration (Fugitive):	110.00 $\mu\text{g}/\text{m}^3$
Max 24 Hour Average Air Concentration (Fugitive):	N/A $\mu\text{g}/\text{m}^3$
Per Site Stack Release:	NA kg/site/day
Stack Release Days per Year:	NA days
% Removal via Stack Release:	99.90 %
Total Stack Release:	NA kg/yr
Max Annual Average Air Concentration (Stack):	0.00 $\mu\text{g}/\text{m}^3$
Max 24 Hour Average Air Concentration (Stack):	N/A $\mu\text{g}/\text{m}^3$

Exposure Units	Results (Stack)	Results (Fugitive)	ASSUMPTIONS			
			ED (years)	AT (years)	BW (kg)	Inh. Rate (m ³ /hr)
Cancer						
LADD _{pot} (mg/kg/day)	N/A	8.52E-03	33.00	78.00	80.00	0.61
LADC _{pot} (mg/m ³)	N/A	4.65E-02	33.00	78.00	NA	NA
Acute						
ADR _{pot} (mg/kg/day)	N/A	N/A	NA	1 day	80.00	0.61

Inhalation Comments:

Stack Parameter Data

Stack Height	10.00	m
Inside Stack Diameter:	0.10	m
Stack Gas Exit Velocity:	0.10	m/sec
Stack Gas Temperature:	293.00	K

Fugitive Parameter Data

Release Height:	3.00	m
Length of Release Opening:	10.00	m
Width of Release Opening:	10.00	m

Meteorological and Terrain Information:

Surrounding Land Use:	Rural
Terrain Height:	0.00
Distance to Residence of Interest:	0.00
Meteorological Class:	Full
Stability Class:	NA
Wind Speed:	NA ft/sec

Downwash Information:

Facility Length:	NA	m
Facility Width:	NA	m
Facility Height:	NA	m

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: P-16-0400

Assessor: Wong/Sarraino/EN

ENVIRONMENTAL RELEASES

Scenario#:20

Number of Release Sites: 75600.

Release Activity: USE2: Max ADR

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	3.78E+06	N/A	N/A	0.00
	(kg/yr)	(kg/yr)	(kg/yr)	(kg/yr)

Non-sludge/Sludge

Release Days/yr:	250.00	0.00/0.00	N/A	0.00
Per Site Release:	0.20	N/A/0.00	N/A	0.00
	(kg/site/day)	(kg/site/day)	(kg/site/day)	(kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: P-16-0400

SIC-CODE BASED HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 20

Number of Sites: 7.56E+04

RELEASE ACTIVITY:USE2:
Max ADR

SIC-CODE DESCRIPTION: POTW (Indust., includes POTWs which receive ind. disch.)

SIC-CODE (S): Subset of 4952

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
90.00	250.	0.2	2.00E-02	0.00	121.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER									
PLANT TYPE	% ILE FACILITY	STREAM FLOW (MLD)				STREAM CONC. (µg/l)			
		Harmonic Mean	30Q5	7Q10	1Q10	Harmonic Mean	30Q5	7Q10	1Q10
ALL	50	288.00	123.84	78.18	66.05	6.94E-02	0.16	0.26	0.30
ALL	10	39.60	13.29	7.76	7.57	0.51	1.50	2.58	2.64

DRINKING WATER AND FISH INGESTION EXPOSURE ESTIMATES						
Exposure Units	Drinking Water Results		Drinking Water Units	Fish Ingestion Results		Fish Ingestion Units
	50%	10%		50%	10%	
Cancer						
LADD _{pot}	2.62E-07	1.90E-06	mg/kg/day	2.28E-07	1.66E-06	mg/kg/day
LADC _{pot}	2.01E-05	1.46E-04	mg/L	2.43E-03	1.77E-02	mg/kg
Acute						
ADR _{pot}	6.12E-06	5.70E-05	mg/kg/day	2.93E-05	2.13E-04	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: P-16-0400

Assessor: Wong/Sarraino/EN

ENVIRONMENTAL RELEASES

Scenario#:21

Number of Release Sites: 75600.

Release Activity: USE2: PDM1

Release Description:	WATER	LANDFILL	STACK	FUGITIVE
	Non-sludge/Sludge			

Total Releases:	3.78E+06	N/A	N/A	0.00
	(kg/yr)	(kg/yr)	(kg/yr)	(kg/yr)

Non-sludge/Sludge

Release Days/yr:	250.00	0.00/0.00	N/A	0.00
Per Site Release:	0.20	N/A/0.00	N/A	0.00
	(kg/site/day)	(kg/site/day)	(kg/site/day)	(kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: P-16-0400

SIC-CODE BASED HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 21

Number of Sites: 7.56E+04

RELEASE ACTIVITY:USE2:
PDM1

SIC-CODE DESCRIPTION: POTW (Indust., includes POTWs which receive ind. disch.)

SIC-CODE (S): Subset of 4952

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
90.00	250.	0.2	2.00E-02	0.00	121.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER									
PLANT TYPE	% ILE FACILITY	STREAM FLOW (MLD)				STREAM CONC. (µg/l)			
		Harmonic Mean	30Q5	7Q10	1Q10	Harmonic Mean	30Q5	7Q10	1Q10
ALL	50	288.00	123.84	78.18	66.05	6.94E-02	0.16	0.26	0.30
ALL	10	39.60	13.29	7.76	7.57	0.51	1.50	2.58	2.64

DRINKING WATER AND FISH INGESTION EXPOSURE ESTIMATES						
Exposure Units	Drinking Water Results		Drinking Water Units	Fish Ingestion Results		Fish Ingestion Units
	50%	10%		50%	10%	
Cancer						
LADD _{pot}	2.62E-07	1.90E-06	mg/kg/day	2.28E-07	1.66E-06	mg/kg/day
LADC _{pot}	2.01E-05	1.46E-04	mg/L	2.43E-03	1.77E-02	mg/kg
Acute						
ADR _{pot}	6.12E-06	5.70E-05	mg/kg/day	2.93E-05	2.13E-04	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: P-16-0400

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 21

RELEASE ACTIVITY: USE2: PDM1

SIC CODE DESCRIPTION: POTW (Indust., includes POTWs which receive ind. disch.)

ASSOCIATED SIC CODES: Subset of 4952

SIC CODE RESULTS

COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Loading (kg/site/day)	Waste Water Treatment (%)	High/Avg Analysis
1.00	28	102	250.00	0.20	90.00	High

Note: Number of COC exceedance days > 20.

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: P-16-0400

Assessor: Wong/Sarraino/EN

ENVIRONMENTAL RELEASES

Scenario#:22

Number of Release Sites: 14000.

Release Activity: USE4: Max ADR

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
Total Releases:	3.18E+05 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	0.00 (kg/yr)

	Non-sludge/Sludge			
Release Days/yr:	6.00	0.00/0.00	N/A	0.00
Per Site Release:	3.78 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	0.00 (kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: P-16-0400

SIC-CODE BASED HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 22

Number of Sites: 1.40E+04

RELEASE ACTIVITY:USE4:
Max ADR

SIC-CODE DESCRIPTION: Metal Finishing

SIC-CODE (S): 34xx - 39xx

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
90.00	6.	3.78	0.38	0.00	121.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER									
PLANT TYPE	% ILE FACILITY	STREAM FLOW (MLD)				STREAM CONC. (µg/l)			
		Harmonic Mean	30Q5	7Q10	1Q10	Harmonic Mean	30Q5	7Q10	1Q10
ALL	50	300.46	107.45	67.50	55.59	1.26	3.52	5.60	6.80
ALL	10	23.74	4.69	2.64	2.27	15.92	80.60	143.18	166.52

DRINKING WATER AND FISH INGESTION EXPOSURE ESTIMATES						
Exposure Units	Drinking Water Results		Drinking Water Units	Fish Ingestion Results		Fish Ingestion Units
	50%	10%		50%	10%	
Cancer						
LADD _{pot}	1.14E-07	1.44E-06	mg/kg/day	9.93E-08	1.26E-06	mg/kg/day
LADC _{pot}	8.75E-06	1.11E-04	mg/L	1.06E-03	1.34E-02	mg/kg
Acute						
ADR _{pot}	1.33E-04	3.05E-03	mg/kg/day	5.31E-04	6.72E-03	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: P-16-0400

Assessor: Wong/Sarraino/EN

ENVIRONMENTAL RELEASES

Scenario#:23

Number of Release Sites: 14000.

Release Activity: USE4: PDM1

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
Total Releases:	5.46E+06 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	0.00 (kg/yr)

	Non-sludge/Sludge			
Release Days/yr:	247.00	0.00/0.00	N/A	0.00
Per Site Release:	1.58 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	0.00 (kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: P-16-0400

SIC-CODE BASED HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 23

Number of Sites: 1.40E+04

RELEASE ACTIVITY:USE4:
PDM1

SIC-CODE DESCRIPTION: Metal Finishing

SIC-CODE (S): 34xx - 39xx

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
90.00	247.	1.58	0.16	0.00	121.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER									
PLANT TYPE	% ILE FACILITY	STREAM FLOW (MLD)				STREAM CONC. (µg/l)			
		Harmonic Mean	30Q5	7Q10	1Q10	Harmonic Mean	30Q5	7Q10	1Q10
ALL	50	300.46	107.45	67.50	55.59	0.53	1.47	2.34	2.84
ALL	10	23.74	4.69	2.64	2.27	6.66	33.69	59.85	69.60

DRINKING WATER AND FISH INGESTION EXPOSURE ESTIMATES						
Exposure Units	Drinking Water Results		Drinking Water Units	Fish Ingestion Results		Fish Ingestion Units
	50%	10%		50%	10%	
Cancer						
LADD _{pot}	1.96E-06	2.48E-05	mg/kg/day	1.71E-06	2.16E-05	mg/kg/day
LADC _{pot}	1.51E-04	1.91E-03	mg/L	1.82E-02	0.23	mg/kg
Acute						
ADR _{pot}	5.57E-05	1.28E-03	mg/kg/day	2.22E-04	2.81E-03	mg/kg/day

SIC Code Comments:

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Chemical ID: P-16-0400

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 23

RELEASE ACTIVITY: USE4: PDM1

SIC CODE DESCRIPTION: Metal Finishing

ASSOCIATED SIC CODES: 34xx - 39xx

SIC CODE RESULTS

COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Loading (kg/site/day)	Waste Water Treatment (%)	High/Avg Analysis
1.00	59	215	247.00	1.58	90.00	High

Note: Number of COC exceedance days > 20.

INITIAL REVIEW EXPOSURE REPORT

CHEMICAL ID: P-16-0400

ENVIRONMENTAL RELEASES OF CHEMICALS IN HOUSEHOLD PRODUCTS

SCENARIO #: 4

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	PRODUCTION VOLUME (kg/yr)	HOUSEHOLD RELEASE DAYS	PRETREATMENT RELEASE (g/person/day)	POST-TREATMENT RELEASE (g/person/day)	BODY WEIGHT (kg)	BCF (L/kg)
90.00	6.35E+07	365.00	0.60	5.98E-02	80.00	121.00

High-end scenario

CONCENTRATION OF CONCERN (ug/L)	NUMBER OF DAYS CONCENTRATION OF CONCERN EXCEEDED	PERCENT OF YEAR CONCENTRATION OF CONCERN EXCEEDED
1.00	360.27	98.70
0.00	0.00	0.00
0.00	0.00	0.00

10th PERCENTILE DRINKING WATER AND FISH INGESTION EXPOSURE ESTIMATES

Exposure Units	Drinking Water Results	Fish Ingestion Results	ASSUMPTIONS			
			ED (years)	AT (years)	DW IR (L/day)	FISH IR (g/day)
Cancer						
LADD _{pot}	1.85E-04 mg/kg/day	1.61E-04 mg/kg/day	57.00	78.00	1.04	7.50
LADC _{pot}	1.42E-02 mg/L	1.71 mg/kg	57.00	78.00	NA	NA
Acute						
ADR _{pot}	3.24E-03 mg/kg/day	3.61E-02 mg/kg/day	NA	1 day	3.03	279.00

50th PERCENTILE DRINKING WATER AND FISH INGESTION EXPOSURE ESTIMATES

Exposure Units	Drinking Water Results	Fish Ingestion Results	ASSUMPTIONS			
			ED (years)	AT (years)	DW IR (L/day)	FISH IR (g/day)
Cancer						
LADD _{pot}	1.09E-05 mg/kg/day	9.48E-06 mg/kg/day	57.00	78.00	1.04	7.50
LADC _{pot}	8.36E-04 mg/L	0.10 mg/kg	57.00	78.00	NA	NA
Acute						
ADR _{pot}	1.47E-04 mg/kg/day	1.64E-03 mg/kg/day	NA	1 day	3.03	279.00

50 th PERCENTILE AQUATIC EXPOSURE ESTIMATES - SURFACE WATER				
DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10
STREAM DILUTION FACTOR	134.85	39.66	24.22	20.08
CONCENTRATION (µg/L)	1.14	3.89	6.37	7.68

10 th PERCENTILE AQUATIC EXPOSURE ESTIMATES - SURFACE WATER				
DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10
STREAM DILUTION FACTOR	7.95	1.80	1.00	1.00
CONCENTRATION (µg/L)	19.39	85.66	154.19	154.19

CEM Inputs		ID Number: P-16-0400	
Product: unknown		Chemical Name: P-16-0400	
Scenario: General Purpose Cleaner		Population: Adult	
Molecular Weight (g/mole):	156	Vapor Pressure (torr)	0.27
Consumer Product Weight Fraction - Central Tendency (unitless):	0.05	Consumer Product Weight Fraction - High-End (unitless):	0.05
Inhalation Inputs			
Frequency of Use (chronic) (events/yr):	300	Exposure Duration (chronic) (years):	57
Frequency of Use (acute) (events/day):	1	Exposure Duration (acute) (days):	1
Mass of Product Used per Event - Central Tendency (g):	61.5	Mass of Product Used per Event - High-End (g):	123
Inhalation Rate During Use (m ³ /hr):	0.74	Duration of Event - Central Tendency (hours/event):	0.667
Inhalation Rate After Use (m ³ /hr):	0.611	Duration of Event - High-End (hours/event):	1.42
Zone 1 Volume (m ³):	36	Whole House Volume (m ³):	523
Air Exchange Rate (air exchanges/hr):	0.45	Body Weight (kg):	80
Activity Patterns (Note: 1=Bedroom 2= Kitchen 3=Bathroom 4=Living Room 5=Utility Room 6=Car 7=Out)			
User:	1 1 1 1 1 1 2 2 1 5 4 2 4 6 7 4 2 2 7 4 4 4 1		
Non-User:	1 1 1 1 1 1 1 1 3 2 4 4 2 4 7 7 4 2 2 7 4 4 4 1		
Hour:	0 6 12 18		
Start Time: 7		Room of Use: 2. Kitchen	
Dermal Inputs			
Frequency of Use (chronic) (events/yr):	300	SA/BW (cm ² /kg):	12.3
Frequency of Use (acute) (events/day):	1		
		Exposure Duration (chronic) (years):	57
Amount Retained / Absorbed to Skin (g/cm ² -event):	3.49e-05	Exposure Duration (acute) (days):	1
Averaging Time (chronic) (days):	2.85e+04	Averaging Time (acute) (days) :	1

CEM Inhalation Exposure Estimates																							
ID Number: P-16-0400																							
Scenario: General Purpose Cleaner	Population: Adult																						
Exposure Duration (years) chronic: 57	Exposure Duration (days) acute: 1																						
<table><tr><th>Exposure Units</th><th>Result</th><th>AT (days)</th></tr><tr><td colspan="3">Chronic Cancer</td></tr><tr><td>LADD_{pot} (mg/kg-day)</td><td>1.11e-01</td><td>2.85e+04</td></tr><tr><td>LADC_{pot} (mg/m³)</td><td>5.78e-01</td><td>2.85e+04</td></tr><tr><td colspan="3">Acute</td></tr><tr><td>ADR_{pot} (mg/kg-day)</td><td>3.48e-01</td><td>1</td></tr><tr><td>Cp_{pot} (mg/m³)</td><td>1.79e+01</td><td>NA</td></tr></table>			Exposure Units	Result	AT (days)	Chronic Cancer			LADD _{pot} (mg/kg-day)	1.11e-01	2.85e+04	LADC _{pot} (mg/m ³)	5.78e-01	2.85e+04	Acute			ADR _{pot} (mg/kg-day)	3.48e-01	1	Cp _{pot} (mg/m ³)	1.79e+01	NA
Exposure Units	Result	AT (days)																					
Chronic Cancer																							
LADD _{pot} (mg/kg-day)	1.11e-01	2.85e+04																					
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Acute																							
ADR _{pot} (mg/kg-day)	3.48e-01	1																					
Cp _{pot} (mg/m ³)	1.79e+01	NA																					
LADD - Lifetime Average Daily Dose (mg/kg-day)	LADC - Lifetime Average Daily Concentration (mg/m ³)																						
ADR - Acute Dose Rate (mg/kg-day)	Cp - Peak Concentration (mg/m ³)																						

Note: 78 years = 2.85e+04 days pot - potential dose

Note: The general Agency guidance for assessing short-term, infrequent events (for most chemicals, an exposure of less than 24 hours that occurs no more frequently than monthly) is to treat such events as independent, acute exposures rather than as chronic exposure. (Methods for Exposure-Response Analysis for Acute Inhalation Exposure to Chemicals (External Review Draft). EPA/600/R-98/051. April 1998)

CEM Dermal Exposure Estimates																
ID Number: P-16-0400																
Scenario: General Purpose Cleaner	Population: Adult															
Exposure Duration (chronic) (years): 57	Exposure Duration (acute) (days): 1															
<table border="1"> <thead> <tr> <th>Exposure Units</th> <th>Result</th> <th>AT (days)</th> </tr> </thead> <tbody> <tr> <td colspan="3">Chronic Cancer</td> </tr> <tr> <td>LADD_{pot} (mg/kg-day)</td> <td>1.29e-02</td> <td>2.85e+04</td> </tr> <tr> <td colspan="3">Acute</td> </tr> <tr> <td>ADR_{pot} (mg/kg-day)</td> <td>2.15e-02</td> <td>1</td> </tr> </tbody> </table>		Exposure Units	Result	AT (days)	Chronic Cancer			LADD _{pot} (mg/kg-day)	1.29e-02	2.85e+04	Acute			ADR _{pot} (mg/kg-day)	2.15e-02	1
Exposure Units	Result	AT (days)														
Chronic Cancer																
LADD _{pot} (mg/kg-day)	1.29e-02	2.85e+04														
Acute																
ADR _{pot} (mg/kg-day)	2.15e-02	1														
LADD - Lifetime Average Daily Dose (mg/kg-day)																
ADR - Acute Dose Rate (mg/kg-day)																

CEM Inputs		ID Number: P-16-0400	
Product: unknown		Chemical Name: P-16-0400	
Scenario: Latex Paint		Population: Adult	
Molecular Weight (g/mole):	156	Vapor Pressure (torr)	0.27
Consumer Product Weight Fraction - Central Tendency (unitless):	0.7	Consumer Product Weight Fraction - High-End (unitless):	0.7
Inhalation Inputs			
Frequency of Use (chronic) (events/yr):	4	Exposure Duration (chronic) (years):	11
Frequency of Use (acute) (events/day):	1	Exposure Duration (acute) (days):	1
Mass of Product Used per Event - Central Tendency (g):	3635	Mass of Product Used per Event - High-End (g):	1.272e+04
Inhalation Rate During Use (m ³ /hr):	0.74	Duration of Event - Central Tendency (hours/event):	3
Inhalation Rate After Use (m ³ /hr):	0.611	Duration of Event - High-End (hours/event):	8
Zone 1 Volume (m ³):	36	Whole House Volume (m ³):	523
Air Exchange Rate (air exchanges/hr):	0.45	Body Weight (kg):	80
Activity Patterns (Note: 1=Bedroom 2= Kitchen 3=Bathroom 4=Living Room 5=Utility Room 6=Car 7=Out)			
User:	1 1 1 1 1 1 2 3 1 1 1 1 1 1 1 1 2 7 4 4 4 1		
Non-User:	1 1 1 1 1 1 1 3 2 4 4 2 4 7 7 4 2 2 7 4 4 4 1		
Hour:	0 6 12 18		
Start Time: 10		Room of Use: 1. Bedroom	
Dermal Inputs			
Frequency of Use (chronic) (events/yr):	4	SA/BW (cm ² /kg):	4.93
Frequency of Use (acute) (events/day):	1		
		Exposure Duration (chronic) (years):	11
Amount Retained / Absorbed to Skin (g/cm ² -event):	0.0114	Exposure Duration (acute) (days):	1
Averaging Time (chronic) (days):	2.85e+04	Averaging Time (acute) (days) :	1

CEM Inhalation Exposure Estimates																							
ID Number: P-16-0400																							
Scenario: Latex Paint	Population: Adult																						
Exposure Duration (years) chronic: 11	Exposure Duration (days) acute: 1																						
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Exposure Units	Result	AT (days)																					
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Note: 78 years = 2.85e+04 days pot - potential dose

Note: The general Agency guidance for assessing short-term, infrequent events (for most chemicals, an exposure of less than 24 hours that occurs no more frequently than monthly) is to treat such events as independent, acute exposures rather than as chronic exposure. (Methods for Exposure-Response Analysis for Acute Inhalation Exposure to Chemicals (External Review Draft). EPA/600/R-98/051. April 1998)

CEM Dermal Exposure Estimates																	
ID Number: P-16-0400																	
Scenario: Latex Paint	Population: Adult																
Exposure Duration (chronic) (years): 11	Exposure Duration (acute) (days): 1																
<table><tr><th>Exposure Units</th><th>Result</th><th>AT (days)</th></tr><tr><td colspan="3">Chronic Cancer</td></tr><tr><td>LADD_{pot} (mg/kg-day)</td><td>6.08e-02</td><td>2.85e+04</td></tr><tr><td colspan="3">Acute</td></tr><tr><td>ADR_{pot} (mg/kg-day)</td><td>3.93e+01</td><td>1</td></tr></table>			Exposure Units	Result	AT (days)	Chronic Cancer			LADD _{pot} (mg/kg-day)	6.08e-02	2.85e+04	Acute			ADR _{pot} (mg/kg-day)	3.93e+01	1
Exposure Units	Result	AT (days)															
Chronic Cancer																	
LADD _{pot} (mg/kg-day)	6.08e-02	2.85e+04															
Acute																	
ADR _{pot} (mg/kg-day)	3.93e+01	1															
LADD - Lifetime Average Daily Dose (mg/kg-day)																	
ADR - Acute Dose Rate (mg/kg-day)																	

CEM Inputs		ID Number: P-16-0400	
Product: unknown		Chemical Name: P-16-0400	
Scenario: Laundry Detergent		Population: Adult	
Molecular Weight (g/mole):	156	Vapor Pressure (torr)	0.27
Consumer Product Weight Fraction - Central Tendency (unitless):	0.05	Consumer Product Weight Fraction - High-End (unitless):	0.05
Inhalation Inputs			
Frequency of Use (chronic) (events/yr):	312	Exposure Duration (chronic) (years):	57
Frequency of Use (acute) (events/day):	1	Exposure Duration (acute) (days):	1
Mass of Product Used per Event - Central Tendency (g):	200	Mass of Product Used per Event - High-End (g):	400
Inhalation Rate During Use (m ³ /hr):	0.74	Duration of Event - Central Tendency (hours/event):	0.333
Inhalation Rate After Use (m ³ /hr):	0.611	Duration of Event - High-End (hours/event):	0.667
Zone 1 Volume (m ³):	36	Whole House Volume (m ³):	523
Air Exchange Rate (air exchanges/hr):	0.45	Body Weight (kg):	80
Activity Patterns (Note: 1=Bedroom 2= Kitchen 3=Bathroom 4=Living Room 5=Utility Room 6=Car 7=Out)			
User:	1 1 1 1 1 1 2 3 5 5 4 2 4 6 7 4 2 2 7 4 4 4 1		
Non-User:	1 1 1 1 1 1 1 3 2 4 4 2 4 7 7 4 2 2 7 4 4 4 1		
Hour:	0 6 12 18		
Start Time: 9		Room of Use: 5. Utility Room	
Dermal Inputs			
Frequency of Use (chronic) (events/yr):	52	SA/BW (cm ² /kg):	12.3
Frequency of Use (acute) (events/day):	1		
		Exposure Duration (chronic) (years):	57
Amount Retained / Absorbed to Skin (g/cm ² -event):	1.11e-05	Exposure Duration (acute) (days):	1
Averaging Time (chronic) (days):	2.85e+04	Averaging Time (acute) (days) :	1

CEM Inhalation Exposure Estimates																							
ID Number: P-16-0400																							
Scenario: Laundry Detergent (Machine Washing)	Population: Adult																						
Exposure Duration (years) chronic: 57	Exposure Duration (days) acute: 1																						
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Exposure Units	Result	AT (days)																					
Chronic Cancer																							
LADD _{pot} (mg/kg-day)	4.74e-02	2.85e+04																					
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Acute																							
ADR _{pot} (mg/kg-day)	3.00e-01	1																					
Cp _{pot} (mg/m ³)	3.55e+01	NA																					
LADD - Lifetime Average Daily Dose (mg/kg-day)	LADC - Lifetime Average Daily Concentration (mg/m ³)																						
ADR - Acute Dose Rate (mg/kg-day)	Cp - Peak Concentration (mg/m ³)																						

Note: 78 years = 2.85e+04 days pot - potential dose

Note: The general Agency guidance for assessing short-term, infrequent events (for most chemicals, an exposure of less than 24 hours that occurs no more frequently than monthly) is to treat such events as independent, acute exposures rather than as chronic exposure. (Methods for Exposure-Response Analysis for Acute Inhalation Exposure to Chemicals (External Review Draft). EPA/600/R-98/051. April 1998)

CEM Dermal Exposure Estimates																
ID Number: P-16-0400																
Scenario: Laundry Detergent (Hand Washing)	Population: Adult															
Exposure Duration (chronic) (years): 57	Exposure Duration (acute) (days): 1															
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Exposure Units	Result	AT (days)														
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